

WHAT IS CLAIMED IS:

Sub A2 1. A method for communicating a clock signal over an optical link, comprising:
receiving a multimodulated optical information signal comprising non-intensity modulation for a data signal and intensity modulation for a clock signal;
recovering the clock signal based on the intensity modulation of the multimodulated optical information signal;
10 converting the non-intensity modulation for the data signal to intensity modulation for the data signal; and
recovering the data signal from the intensity modulation for the data signal using the clock signal.
15 2. The method of Claim 1, wherein the non-intensity modulation comprises a phase modulation of a carrier signal.
20 3. The method of Claim 1, wherein the non-intensity modulation comprises a frequency modulation of a carrier signal.
25 4. The method of Claim 1, wherein the data signal is phase shift keyed in the multimodulated optical information signal and the clock signal is intensity shift keyed in the multimodulated optical information signal.

5. A system for communicating a clock signal over an optical link, comprising:

means for receiving a multimodulated optical information signal comprising non-intensity modulation for a data signal and intensity modulation for a clock signal;

means for recovering the clock signal based on the intensity modulation of the multimodulated optical information signal;

10 means for converting the non-intensity modulation for the data signal to intensity modulation for the data signal; and

15 means for recovering the data signal from the intensity modulation for the data signal using the clock signal.

6. The method of Claim 5, wherein the non-intensity modulation comprises a phase modulation of a carrier signal.

20 7. The method of Claim 5, wherein the non-intensity modulation comprises a frequency modulation of a carrier signal.

25 8. The method of Claim 5, wherein the data signal is phase shift keyed in the multimodulated optical information signal and the clock signal is intensity shift keyed in the multimodulated optical information signal.

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9. A optical receiver, comprising:

an interface for receiving a multimodulated optical information signal comprising non-intensity modulation for a data signal and intensity modulation for a clock signal;

a clock recovery element operable to recover the clock signal based on the intensity modulation of the multimodulated optical information signal;

10 a data recovery element operable to recover the data signal from the non-intensity modulation of the multimodulated optical information signal based on the clock signal.

15 10. The system of Claim 9, wherein the non-intensity modulation comprises a phase modulation of a carrier signal.

20 11. The system of Claim 9, wherein the non-intensity modulation comprises a frequency modulation of a carrier signal.

25 12. The system of Claim 9, wherein the data signal is phase shift keyed in the multimodulated optical information signal and the clock signal is intensity shift keyed in the multimodulated optical information signal.

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